EXHIBIT 11 –FCC RF EXPOSURE (MPE) REPORT

Prediction of MPE Limit
47 CFR § 2.1091

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2} \qquad S_C = \frac{P_A G_N}{4\pi R_C^2} \qquad R_C = \sqrt{\frac{P_A G_N}{4\pi S_L}}$$

$$S_L = \frac{f}{1500} \text{ (mW/cm}^2\text{)}$$

S_{20} = Power Density of the Device at 20cm
S_L = Power Density Limit
S_C = Power Density of the Device at the Compliance Distance R_C
R_{20} = 20cm
R_c = Minimum Distance to the Radiating Element to Meet Compliance
P_T = Power Input to Antenna
P_A = Adjust Power
G_N = Numeric Gain of the Antenna
f = Transmit Frequency

Transmit Duty Cycle = 100%

Use Group = General Popuation

Transmit Duty Cycle:	**100.00**	**(%)**
Tx Frequency (f):	**906.00**	**(MHz)**
RF Power at Antenna Input Port (P_T):	**400.00**	**(mW)**
Antenna Gain:	**1.59**	**(dBi)**
Numeric Antenna Gain (G_N):	**1.44**	**(numeric)**
Cable or Other Loss:	**0.00**	**(dB)**
Duty Cycle/Loss Adjusted Power (P_A):	**400.00**	**(mW)**

S_L =	**0.604**	**(mW/cm^2)**
S_{20} at 20cm =	**0.115**	**(mW/cm^2)**
R_C =	**8.7**	**(cm)**
S_C =	**0.60**	**(mW/cm^2)**

FCC ID:	**2AK4V-DT-552**	**RESULT:**	**PASS**

